

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	409	417/412	US-PGPUB; USPAT	OR	ON	2008/02/19 16:29
S2	50	("4171852"   "4282532"   "4296417"   "5212988"   "5525041").PN. OR ("6010316").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/19 17:01
S3	530	417/413.1	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/19 17:21
S4	16	"4648807"	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/20 08:35
S5	5	("4874016").URPN.	USPAT	OR	ON	2008/02/20 08:43
S6	0	"20020146333"	USPAT	OR	ON	2008/02/20 08:46
S7	1	"20020146333"	US-PGPUB; USPAT	OR	ON	2008/02/20 08:47
S8	34	"3606592"	US-PGPUB; USPAT	OR	ON	2008/02/20 08:51
S9	7	"3255779"	US-PGPUB; USPAT	OR	ON	2008/02/20 09:02
S10	55	"4011474"	US-PGPUB; USPAT	OR	ON	2008/02/20 09:12
S11	38	("20010001278"   "20020175596"   "20030015035"   "20040217671"   "20060006764"   "3743446"   "4011474"   "4063826"   "4170244"   "4322449"   "4498851"   "4512933"   "4595338"   "4684328"   "4697738"   "4753579"   "4780062"   "4834619"   "4923000"   "5008582"   "5256159"   "5419780"   "5520715"   "5628411"   "5697153"   "5702618"   "5705070"   "5861703"   "5982801"   "6065688"   "6164140"   "6252769"   "6308740"   "6361747"   "6467350"   "6576042"   "6638032"   "6654392").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/20 09:13

S12	18	"3657930"	US-PGPUB; USPAT	OR	ON	2008/02/20 09:28
S13	21	("3657930"   "4842493"   "4869656"   "4939405"   "5471721"   "5632841"   "5876187").PN. OR ("6071087").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/20 09:32
S14	53	("4646781"   "5082242"   "5176358"   "5180623"   "5244537"   "5322258"   "5323999"   "5336062"   "5368571"   "5441597"   "5529465"   "5536963"   "5725363"   "5836750"   "5839467"   "6106245"   "6109889"   "6116863"). PN. OR ("6179586").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/20 09:55
S15	10	((JOSEF) near2 (LUTZ)). INV.	US-PGPUB; USPAT	OR	ON	2008/02/20 10:01
S16	36	((JOSEF) near2 (LUTZ)). INV.	EPO; JPO; DERWENT	OR	ON	2008/02/20 10:03
S17	1	"20020146333"	US-PGPUB; USPAT	OR	ON	2008/02/20 10:20
S18	9	"20020122561"	US-PGPUB; USPAT	OR	ON	2008/02/20 11:22
S19	280	417/413.2	US-PGPUB; USPAT	OR	ON	2008/02/20 11:48
S20	14	("20050258715"   "4773218"   "4927084"   "5338164"   "5759015"   "5811911"   "6042345"   "6071088"   "6074178"   "6120264"   "6751954"   "6761028"   "6811093"   "6869275").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/20 12:32
S21	62	"4939405"	US-PGPUB; USPAT	OR	ON	2008/02/20 13:10
S22	4368	(310/311,317-322).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/20 13:31
S23	0	("I20andchamber").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/20 13:31
S24	425	S22 and chamber	US-PGPUB; USPAT	OR	ON	2008/02/20 13:31
S25	51	"5180288"	US-PGPUB; USPAT	OR	ON	2008/02/20 16:53
S26	24	"4634057"	US-PGPUB; USPAT	OR	ON	2008/02/20 16:56
S27	255	foil same diaphragm same chamber	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/20 17:00

S28	300	micro adj membrane	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/20 17:08
S29	92	S28 and diaphragm	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/20 17:08
S30	1187	piezoelectric adj pump	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/20 17:12
S31	224	S30 and diaphragm	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/20 17:12
S32	185	381/114	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/20 17:22
S33	62	piezo adj electric same (vibrator or vibration) same pump	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2008/02/21 06:31
S34	223	84/730	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2008/02/21 06:57
S35	0	("6856073").URPN.	USPAT	OR	ON	2008/02/21 07:23
S36	65	("2540187"   "2540194"   "2836737"   "2836738"   "2963597"   "2967956"   "3114849"   "3215078"   "3457543"   "3510698"   "3562764"   "3857049"   "4051455"   "4284921"   "4379246"   "4401911"   "4409681"   "4439706"   "4452084"   "4485325"   "4581556"   "4697195"   "4803393"   "4944659"   "5081995"   "5122993"   "5262696"   "5291090"   "5327041"   "5503034"   "5592042"   "5631040"   "5663505"   "5697195"   "5838350"   "5852337"   "5862275"   "6025671"   "6033191"   "6042345"   "6069433"   "6071087"   "6071088"   "6072267"   "6074178"   "6091182"   "6106245"   "6265811"   "6285116"   "6297578"   "6323580"   "6341732"   "6351196"   "6356007"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/21 07:23

S37	7083	piezo adj electric	DERWENT	OR	ON	2008/02/21 07:52
S38	197	S37 and pump	DERWENT	OR	ON	2008/02/21 07:52
S39	14	(micro adj membrane)same pump	DERWENT	OR	ON	2008/02/21 08:03
S40	8	(electro adj static)same pump	DERWENT	OR	ON	2008/02/21 08:05
S41	5832	(diaphragm)same pump	DERWENT	OR	ON	2008/02/21 08:06
S42	2662	S41 and chamber	DERWENT	OR	ON	2008/02/21 08:06
S43	85	S42 and electrode	DERWENT	OR	ON	2008/02/21 08:06
S44	1853	(381/190,191,173).OCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/25 08:33
S45	565	S44 and diaphragm	US-PGPUB; USPAT	OR	ON	2008/02/25 08:33
S46	11	("1809754"   "3859477"   "4006317"   "4041446"   "5054081"   "5206557"   "6393129").PN. OR ("6535612").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/25 08:44
S47	18	("4578613").URPN.	USPAT	OR	ON	2008/02/25 08:53
S48	36	((JOSEF) near2 (LUTZ)). INV.	EPO; JPO; DERWENT	OR	ON	2008/02/25 09:16
S49	16	"2836737"	US-PGPUB; USPAT	OR	ON	2008/02/25 10:18
S50	15	("2836737").URPN.	USPAT	OR	ON	2008/02/25 10:22
S51	0	6856073B2	USPAT	OR	ON	2008/02/25 10:57
S52	1	"6856073"	USPAT	OR	ON	2008/02/25 10:57
S53	65	("2540187"   "2540194"   "2836737"   "2836738"   "2963597"   "2967956"   "3114849"   "3215078"   "3457543"   "3510698"   "3562764"   "3857049"   "4051455"   "4284921"   "4379246"   "4401911"   "4409681"   "4439706"   "4452084"   "4485325"   "4581556"   "4697195"   "4803393"   "4944659"   "5081995"   "5122993"   "5262696"   "5291090"   "5327041"   "5503034"	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/25 10:57

		"5592042"   "5631040"   "5663505"   "5697195"   "5838350"   "5852337"   "5862275"   "6025671"   "6033191"   "6042345"   "6069433"   "6071087"   "6071088"   "6072267"   "6074178"   "6091182"   "6106245"   "6265811"   "6285116"   "6297578"   "6323580"   "6341732"   "6351196"   "6356007"). PN.				
S54	1	"20060159568"	US-PGPUB; USPAT	OR	ON	2008/02/25 15:06
S55	57	(surface adj roughness) same (van adj der adj waals adj force)	US-PGPUB; USPAT	OR	ON	2008/02/25 17:15
S56	421	(vibration adj damping) same orifice	US-PGPUB; USPAT	OR	ON	2008/02/25 17:47
S57	4	(piezoelectric adj pump) same (vibration or pulse) same damp\$3	US-PGPUB; USPAT	OR	ON	2008/02/25 17:54
S58	2	"6454206"	US-PGPUB; USPAT	OR	ON	2008/02/25 18:02
S59	0	accoustic same impedance same small same orifice	US-PGPUB; USPAT	OR	ON	2008/02/26 08:56
S60	0	accoustic same impedance same orifice	US-PGPUB; USPAT	OR	ON	2008/02/26 08:56
S61	4	accoustic same impedance and orifice	US-PGPUB; USPAT; DERWENT	OR	ON	2008/02/26 08:57
S62	88	pulsation same damping same orifice	US-PGPUB; USPAT; DERWENT	OR	ON	2008/02/26 08:58
S63	8	("3229643"   "3947156"   "4498850"   "5096388"   "5431634"   "6050787"   "6074179").PN. OR ("7040869").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/10 14:50

S64	65	( "2540187"   "2540194"   "2836737"   "2836738"   "2963597"   "2967956"   "3114849"   "3215078"   "3457543"   "3510698"   "3562764"   "3857049"   "4051455"   "4284921"   "4379246"   "4401911"   "4409681"   "4439706"   "4452084"   "4485325"   "4581556"   "4697195"   "4803393"   "4944659"   "5081995"   "5122993"   "5262696"   "5291090"   "5327041"   "5503034"   "5592042"   "5631040"   "5663505"   "5697195"   "5838350"   "5852337"   "5862275"   "6025671"   "6033191"   "6042345"   "6069433"   "6071087"   "6071088"   "6072267"   "6074178"   "6091182"   "6106245"   "6265811"   "6285116"   "6297578"   "6323580"   "6341732"   "6351196"   "6356007"). PN. OR ("6856073").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/10 14:55
S65	65	( "2540187"   "2540194"   "2836737"   "2836738"   "2963597"   "2967956"   "3114849"   "3215078"   "3457543"   "3510698"   "3562764"   "3857049"   "4051455"   "4284921"   "4379246"   "4401911"   "4409681"   "4439706"   "4452084"   "4485325"   "4581556"   "4697195"   "4803393"   "4944659"   "5081995"   "5122993"   "5262696"   "5291090"   "5327041"   "5503034"   "5592042"   "5631040"   "5663505"   "5697195"   "5838350"   "5852337"   "5862275"   "6025671"   "6033191"   "6042345"   "6069433"   "6071087"   "6071088"   "6072267"   "6074178"   "6091182"   "6106245"   "6265811"   "6285116"   "6297578"   "6323580"   "6341732"   "6351196"   "6356007"). PN. OR ("6856073").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/10 15:06

S66	66	"4939405"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/11 09:06
S67	65	("3270672"   "3361067"   "4140936"   "4492360"   "4708600").PN. OR ("4939405").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/11 09:11
S68	157	("20020078756"   "20020100888"   "20020129857"   "20020174706"   "20020192113"   "20030005774"   "20030019299"   "20030033884"   "20030142291"   "20030189809"   "20030205090"   "20030234376"   "20040035211"   "20040060360"   "20040144939"   "2403692"   "2975307"   "3304446"   "3381623"   "3414010"   "3641373"   "3769531"   "3803424"   "3947644"   "3993939"   "4115036"   "4140936"   "4197737"   "4360955"   "4418886"   "4453169"   "4478076"   "4478077"   "4498850"   "4501144"   "4539575"   "4576050"   "4581624"   "4585209"   "4619438"   "4651564"   "4654546"   "4722360"   "4756508"   "4821999"   "4826131"   "4829826"   "4846440"   "4898200"   "4911616"   "4938742"   "4939405"   "5065978"   "5069419"   "5078581"   "5082242"   "5085562"   "5096388"   "5129794"   "5148074"   "5171132"   "5176358"   "5180288"   "5180623"   "5186054"   "5192197"   "5206557"   "5219278"   "5224843"   "5244527"   "5244537"   "5316261"   "5322258"   "5323999"   "5325880"   "5336062"   "5368571"   "5441597"   "5452878"	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/11 09:14

		"5499909"   "5526172"   "5529465"   "5536963"   "5541465"   "5552654"   "5571401"   "5593134"   "5642015"   "5683159"   "5696662"   "5725363"   "5759014"   "5759015"   "5792957"   "5808205"   "5822170"   "5836750"   "5839467"   "5863708"   "5897097"   "5901939"   "5911872"   "5954079"   "5971355"   "6089534"   "6095496"   "6106245"   "6109889"   "6116863"   "6122973"   "6126140"   "6151967"   "6167761"   "6179586"   "6182941"   "6184607"   "6184608"   "6211580"   "6215221"   "6240944").PN. OR ("6255758"   "6288472"   "6358021"   "6373682"   "6382228"   "6418793"   "6431212"   "6432721"   "6445053"   "6457654"   "6464200"   "6496348"   "6508528"   "6520753"   "6549275"   "6561224"   "6568286"   "6590267"   "6597438"   "6626416"   "6640642"   "6644117"   "6649416"   "6651506"   "6655923"   "6729856"   "6750589"   "6758107"   "6767190"   "6830071"   "6837476"   "7168675"). PN. OR ("7328882").URPN.				
S69	42	("3243181"   "3405977"   "3414331"   "3422411"   "3437335"   "3550964"   "3918706"   "4493548"   "4577854"   "4618292"   "4874273"   "5082242"   "5284179"   "5417235"   "5441597"   "5497987"   "5897097"   "5901939"). PN. OR ("6089534").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/11 09:30
S70	2	"20060159568"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/11 10:20



S71	1300	(417/412,413.1).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/09/11 12:59
S72	228	(84/173).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/09/11 13:11
S73	0	("2andpiezo").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/09/11 13:11
S74	3	S72 and piezo	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/11 13:11
S75	918	(381/199,191).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/09/11 13:12
S76	36	S75 and piezo	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/11 13:12
S77	3626	(310/311,317).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/09/11 13:12
S78	0	("7andpiezo").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2008/09/11 13:12
S79	641	S77 and piezo	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/11 13:12
S80	30	S79 and diaphragm and chamber	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/11 13:13
S81	2	"6856073"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2008/09/11 13:19
S82	15	((JOSEF) near2 (LUTZ)). INV.	US-PGPUB; USPAT; USOCR	OR	ON	2008/09/11 13:20
S83	38	((JOSEF) near2 (LUTZ)). INV.	EPO; JPO; DERWENT	OR	ON	2008/09/11 13:21

9/11/2008 1:22:13 PM

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